

**AMENDMENTS TO THE CLAIMS:**

1-22. (canceled)

23. (previously presented) An antibody-producing cell line that produces a monoclonal antibody that binds specifically to a purified oligopeptide having the amino acid sequence LQLQPFQPQLPYPQPQLPYPQPQLPYPQPQPF (SEQ ID NO:12).

24. (original) An antibody produced from the cell line of claim 23.

25-28. (canceled)

29. (previously presented) The antibody of Claim 24, wherein the antibody is generated against (SEQ ID NO:12) LQLQPFQPQLPYPQPQLPYPQPQLPYPQPQPF.

30 (previously presented) An antibody-producing cell line that that was generated by a response to a purified oligopeptide having the amino acid sequence LQLQPFQPQLPYPQPQLPYPQPQLPYPQPQPF (SEQ ID NO:12), and which produces a monoclonal antibody that binds specifically to a purified oligopeptide having the amino acid sequence LQLQPFQPQLPYPQPQLPYPQPQLPYPQPQPF (SEQ ID NO:12).

31. (previously presented) An antibody produced by the cell line of Claim 30.

32. (currently amended) An antibody that binds specifically to an antigen selected from (SEQ ID NO:12) LQLQPFQPQLPYPQPQLPYPQPQLPYPQPQPF; ~~a deamidated counterpart oligopeptide of SEQ ID NO:12; or a conjugate of tissue transglutaminase and linked to SEQ ID NO:12; or a conjugate of tissue transglutaminase and linked to said counterpart oligonucleotide.~~

33. (previously presented) The antibody of Claim 32, wherein the antibody is a polyclonal antibody.

34. (previously presented) The antibody of Claim 32, wherein the antibody is a monoclonal antibody.

35. (canceled)

36. (currently amended) The antibody of Claim 32, wherein the antibody is produced by a cell line generated by a response to a ~~conjugate of~~ tissue transglutaminase and linked to SEQ ID NO:12.

37. (canceled)

38. (currently amended) An antibody producing cell line that that was generated by an immune response to an ~~antigen selected from (SEQ ID NO:12)~~ ~~LQLQPFPPQLPYPQPQLPYPQPQLPYPQPQPF~~; a ~~deamidated counterpart oligopeptide of~~ ~~SEQ ID NO:12~~; a conjugate of tissue transglutaminase and linked to SEQ ID NO:12; ~~or a conjugate of tissue transglutaminase and linked to said counterpart oligonucleotide.~~